

IN THE CLAIMS

1. (Previously presented) An apparatus comprising:
 - a point light source;
 - a photodetector;
 - a lens, positioned in the same side of said point light source and said photodetector, said lens capable of focusing a light from said point light source onto a target area of an object through said lens, and capable of focusing a reflected light from said target area of said object onto said photodetector through said lens; and
 - wherein said object comprises a test strip comprising a light-absorbing area capable of occurring in response to a specific component of a tested solution contacting therewith and capable of absorbing said light emitting from said point light source; and
 - wherein said point light source is capable of radiating a light with a first wavelength and a light with a second wavelength, said tested solution contained in said light-absorbing area of said test strip is capable of absorbing said light with the first wavelength, wherein a sampling amount of said tested solution is determined in accordance with the reflectance of said light with the first wavelength from said light-absorbing area, and said light-absorbing area is capable of occurring in response to said specific component of said tested solution and is capable of absorbing said light with the second wavelength, wherein a content of said specific component is determined in accordance with the reflectance of said light with the second wavelength from said light-absorbing area.
2. (Previously presented) The apparatus of claim 1, further comprising a holder capable of holding said point light source at a first end thereof and holding said photodetector at a second end thereof opposite said first end.
3. (Original) The apparatus of claim 1, wherein said object is placed at a focal position of said lens.
4. (Previously presented) The apparatus of claim 1, wherein said point light source comprises a light emitting diode.
5. (Previously presented) The apparatus of claim 1, wherein said photodetector is

capable of generating a response current in response to said reflected light from said target area of said object.

6. (Previously presented) The apparatus of claim 5, wherein said photodetector comprises one or more of the following a photodiode, a charge-coupled device, or a complex metal oxide semiconductor sensor, or combinations thereof.

7. (Cancelled)

8. (Cancelled)

9. (Previously presented) The apparatus of claim 1, wherein said specific component of said tested solution to be detected depends on an enzyme system contained in said test strip.

10. (Previously presented) The apparatus of claim 9, further comprising means for monitoring a concentration of glucose in a blood sample.

11. (Previously presented) The apparatus of claim 9, further comprising means for monitoring a concentration of cholesterol in a blood sample.

12. (Currently amended) An apparatus, comprising:
a holder;
a point light source disposed at a first end edge of said holder;
a photodetector disposed at a second end edge of said holder opposite said first end edge, said first end edge and said second end edge formed on the same side of said holder;
and

a lens disposed at the same side of said point light source and said photodetector, said lens capable of focusing a light from said point light source through said lens onto a target area of an object placed at a focal position of said lens, and capable of focusing a reflected light from said target area of said object onto said photodetector through said lens.

13. (Currently amended) The apparatus of claim 12, wherein:
said point light source comprises a light emitting diode radiates a light with a first wavelength and radiates a light with a second wavelength at a tested solution in the target area of the object; and
the photodetector determines a sampling amount of said tested solution on the object in accordance with the reflectance of said light with the first wavelength and determines a content of a component in said tested solution in accordance with the reflectance of said light with the second wavelength.

14. (Previously presented) The apparatus of claim 12, wherein said photodetector is capable of generating a response current in response to said reflected light from said target area of said object.

15. (Previously presented) The apparatus of claim 14, wherein said photodetector comprises one or more of the following: a photodiode, a charge-coupled device, or a complex metal oxide semiconductor sensor, or combinations thereof.

16. (Previously presented) The apparatus of claim 12, wherein said object comprises a test strip comprising a light-absorbing area capable of occurring in response to a specific component of a tested solution contacting therewith and capable of absorbing said light emitting from said point light source.

17. (Currently amended) The apparatus of claim 16, An apparatus, comprising:
a point light source configured to radiate a light with a first wavelength and radiate a light with a second wavelength;
a lens configured to focus the light from said point light source through said lens onto a target area of an object placed at a focal position of said lens, wherein said point light source is capable of radiating configured to radiate the a light with a the first wavelength and a radiate the light with a the second wavelength; onto a said tested solution contained in said light-absorbing target area of said test strip is capable of absorbing object; and
a photodetector configured to detect a reflectance of said light with the first wavelength from said tested solution, and said light absorbing area is capable of absorbing detect a reflectance of said light with the second wavelength from said tested solution.

18. (Currently amended) The apparatus of claim 16 17, wherein said a specific component of said tested solution to be detected depends on an enzyme system contained in said test strip a sampling amount of the tested solution in said target area is determined in accordance with the reflectance of said light with the first wavelength from said target area, and a content of said tested solution is determined in accordance with the reflectance of said light with the second wavelength from said target area.

19. (Currently amended) The apparatus of claim 18, further comprising means 17 wherein the reflectance of said light is used for monitoring a concentration of glucose in a blood sample.

20. (Currently amended) The apparatus of claim 18, further comprising means 17 wherein the reflectance of said light is used for monitoring a concentration of cholesterol in a blood sample.

21. (Currently amended) An apparatus, comprising:
means for emitting a point of light at a first wavelength and at a second wavelength onto a target area of an object;
means for detecting a reflected light from said target area of said object;
means for focusing said point of light onto said target area of said object; and for focusing said reflected light onto said means for detecting, wherein said means for focusing is positioned to the same side of said means for emitting and said means for detecting; and
means for holding said means for emitting and said means for detecting, wherein said means for emitting is located at a first end of said means for holding, and wherein said means for detecting is located opposite said first end at a second end of said means for holding; and
means for detecting a reflectance of said light with the first wavelength from said target area of said object and detecting a reflectance of said light with the second wavelength from said target area of said object.

22. (Previously presented) The apparatus of claim 21, wherein said object is placed at a focal position of said means for focusing.

23. (Currently amended) The apparatus of claim 21, wherein said means for emitting comprises a light emitting diode a sampling amount of a tested solution in said

target area is determined in accordance with the reflectance of said light with the first wavelength from said target area, and a content of said tested solution is determined in accordance with the reflectance of said light with the second wavelength from said target area.

24. (Previously presented) The apparatus of claim 21, wherein said means for detecting is capable of generating a response current in response to said reflected light.

25. (Currently amended) The apparatus of claim 24, wherein said means for detecting comprises one or more of the following a photodiode, a charge-coupled device, or a complex metal oxide semiconductor sensor, or combinations thereof.

26. (Previously presented) The apparatus of claim 21, wherein said object comprises a test strip comprising a light-absorbing area capable of occurring in response to a specific component of a tested solution contacting therewith and capable of absorbing said light emitting from said point light source.

27. (Cancelled)

28. (Previously presented) The apparatus of claim 26, wherein said specific component of said tested solution to be detected depends on an enzyme system contained in said test strip.

29. (Previously presented) The apparatus of claim 28, further comprising means for monitoring a concentration of glucose in a blood sample.

30. (Previously presented) The apparatus of claim 28, further comprising means for monitoring a concentration of cholesterol in a blood sample.

31. (Currently amended) A method, comprising:
emitting a point of light onto a target area of an object via a point light source located at a first end of a holder;
detecting a reflected light from said target area of said object via a photodetector located opposite said first end at a second end of said holder; and

focusing said point of light onto said target area of said object and for focusing said reflected light onto said photodetector via a lens positioned to the same side of said point light source and said photodetector;

radiating the light with a first wavelength and radiating the light with a second wavelength via said point light source onto a tested solution on said object;

detecting an amount of absorption of said light with the first wavelength via said tested solution contained on said object; and

detecting an amount of absorption of said light with the second wavelength via said tested solution contained on said object.

32. (Previously presented) The method of claim 31, further comprising placing said object at a focal position of said lens.

33. (Currently amended) The method of claim 31, wherein said emitting further comprising using a light emitting diode to emit the a point of light onto a said target area of an said object via a point light source comprises emitting a point of light onto a target area of an object via a point light source comprising a light emitting diode.

34. (Previously presented) The method of claim 31, further comprising generating a response current in response to said reflected light via said photodetector.

35. (Currently amended) The method of claim 34, wherein said detecting a reflected light from said target area of said object via a photodetector comprises detecting a reflected light from said target area of said object via a photodetector comprising further comprising using one or more of the following a photodiode, a charge-coupled device, or a complex metal oxide semiconductor sensor, or combinations thereof to detect the reflected light from said target area of said object.

36. (Currently amended) The method of claim 31, further comprising producing wherein the target area of said object comprises a light-absorbing area on said object in response to with a specific component of a tested solution contacting therewith and capable of absorbing said light emitting from said point light source.

37. (Currently amended) The method of claim 36, further comprising A method comprising:

emitting a point of light onto a target area of an object via a point light source located at a first end of a holder;

detecting a reflected light from said target area of said object via a photodetector located opposite said first end at a second end of said holder;

focusing said point of light onto said target area of said object and for focusing said reflected light onto said photodetector via a lens positioned to the same side of said point light source and said photodetector;

producing a light-absorbing area on said object in response to a specific component of a tested solution contacting therewith and capable of absorbing said light emitting from said point light source;

radiating a light with a first wavelength and a light with a second wavelength via said point light source, absorbing said light with the first wavelength via said tested solution contained in said light-absorbing area of said object, and absorbing said light with the second wavelength via said light-absorbing area.

38. (Currently amended) The method of claim 36, wherein said specific component of said tested solution ~~to be detected~~ depends on an enzyme system contained in said object.

39. (Previously presented) The method of claim 38, further comprising monitoring a concentration of glucose in a blood sample.

40. (Previously presented) The method of claim 38, further comprising monitoring a concentration of cholesterol in a blood sample.

41. (New) The method of claim 31, further comprising:
determining a sampling amount of the tested solution on the object in accordance with the reflectance of said light with the first wavelength from the target area, and
determining a content of a component in said tested solution in accordance with the reflectance of said light with the second wavelength from said target area.

42. (New) An apparatus comprising:

a light source configured to radiate a light with a first wavelength and radiate a light at a second wavelength;

a lens configured to focus the light with the first wavelength and focus the light with the second wavelength onto a tested solution on an object;

a photodetector configured to detect a reflected light from said object; and

a device configured to determine a sampling amount of the tested solution on said object in accordance with the reflectance of said light with the first wavelength from said object, and determine an amount of a specific component in the tested solution in accordance with the reflectance of said light with the second wavelength from said object.

43. (New) The apparatus of claim 42, further comprising a holder configured to hold said light source at a first edge and hold said photodetector at a second edge thereof opposite said first edge.

44. (New) The apparatus of claim 42, wherein said object is located at a focal position of the lens.

45. (New) The apparatus of claim 42, wherein said point light source comprises a light emitting diode.